INCH-POUND
MIL-C-17/130E
AMENDMENT 3
19 October 2000
SUPERSEDING
AMENDMENT 2
1 March 1994

MILITARY SPECIFICATION SHEET

CABLE, RADIO FREQUENCY, COAXIAL, 0.141 INCH (3.58mm)
DIAMETER, SEMIRIGID, 50 OHMS

This amendment forms a part of MIL-C-17/130E, 17 January 1992, and
is approved for use by all Departments and Agencies of the Department of Defense.

PAGE 2

* Table I, add the following new part numbers:

Part number	Inner conductor	Dielectric core	Outer conductor 1/
M17/130-00008	Solid, silver-coated Copper-clad steel Diameter, .0362 ± .0007 Inch.	Type F-1 diameter, .1175 ± .0010 inch.	Seamless aluminum tubing 7/ diameter, .141 ± .001 inch
M17/130-00009	Same as above	Same as above	Seamless aluminum tubing 7/ Diameter, .141 ± .001 inch tin Plated in accordance with ASTM-B545, .0003 Minimum inch thick.
M17/130-00010	.0362 ± .0007 inch diameter. 4/	Same as above	Seamless aluminum tubing 7/ diameter, .141 ± .001 inch
M17/130-00011	Same as above	Same as above	Seamless aluminum tubing 7/ Diameter, .141 ± .001 inch tin Plated in accordance with ASTM-B545, .0003 Minimum inch thick
M17/130-00012	Solid, silver-coated Copper-clad steel Diameter, .0362 ± .0007 Inch.	Same as above	Copper tubing, diameter 3/ .141 + .002 inch, - .001 inch, silver plated in accordance with QQ-S-365, Type II, Grade A, 300μ inches, Minimum.
M17/130-00013	.0362 ± .0007 inch diameter. 4/	Same as above	Copper tubing, diameter 3/ .141 + .002 inch, - .001 inch, silver plated in accordance with QQ-S-365, Type II, Grade A, 300μ inches, Minimum.

Part number	Inner conductor	Dielectric core	Outer conductor 1/
M17/130-00014	Solid, silver-coated Copper-clad steel Diameter, .0362 ± .0007 Inch.	Type F-1 diameter, .1175 ± .0010 inch.	Copper tubing 2/ 3/ Diameter .141 +.002, -.001 inch, 90/10 tin-plated in accordance with SAE-AMS-P-81728, .0003 inch thick minimum.
M17/130-00015	Solid silver coated copper wire, diameter .0362 ± .0007.	Same as above	Same as above

Table I, at the end of footnote 2/, add the following sentence:

"33,000 psi, minimum, 30 percent elongation, maximum."

Table I, following footnote 6/, add:

"7/ The tensile strength (outer conductor) shall be 15,500 psi, maximum, 40 percent elongation minimum measured over 2 inches."

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Eccentricity, delete "7.5 percent, maximum." And substitute "6 percent, maximum."

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* Figure 2, Power rating and attenuation, delete and substitute the following:

"1. M17/130-RG402, 00001, 00004, 00005 and 00012.
2. M17/130-00002, -00003, 00006, 00007, 00010, -00011 and 00013."

* Add the following new Figure 2A as shown on page 3 of this amendment.

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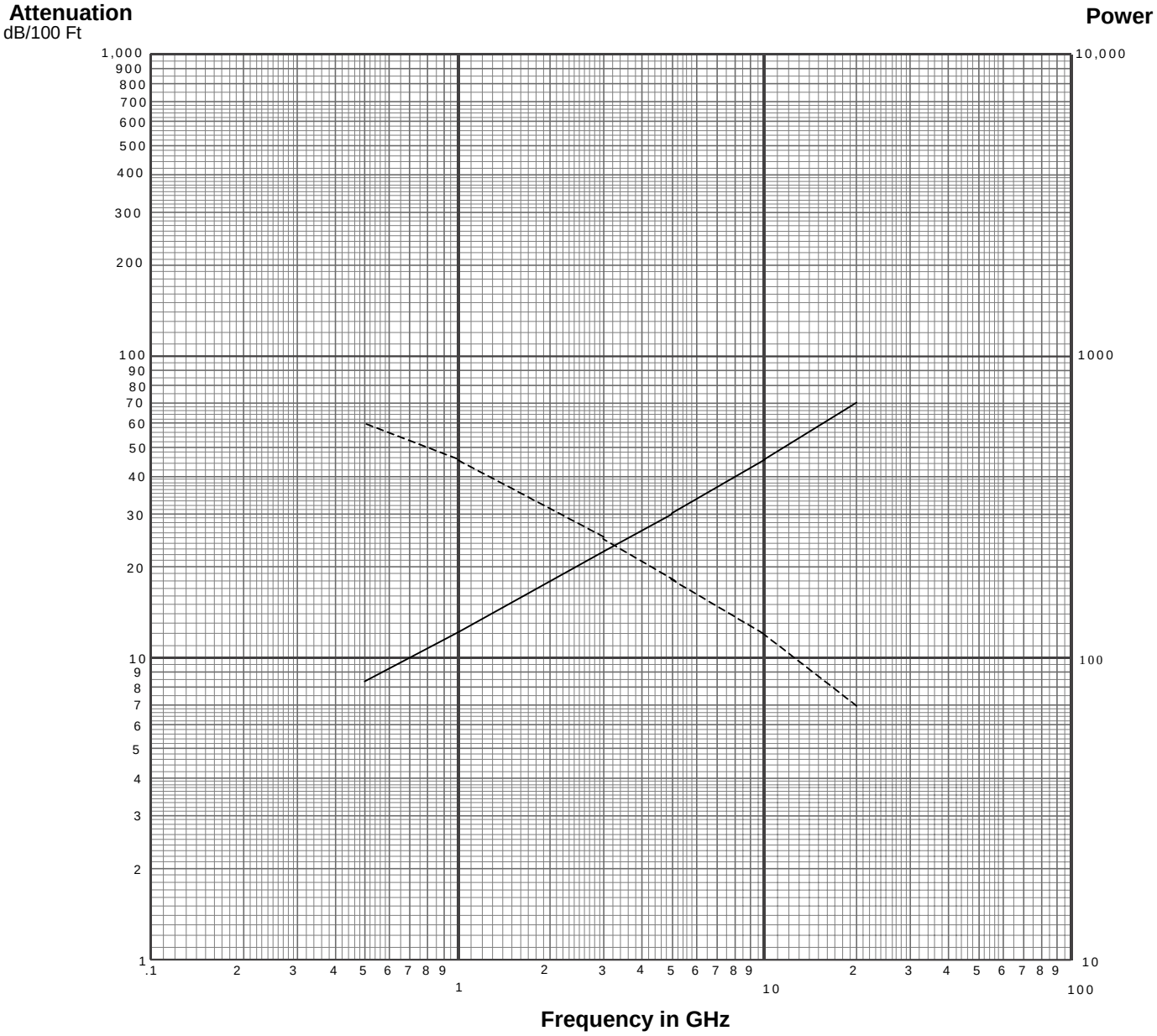
Bendability, add the following: "Mandrel diameter .250 inch maximum for –00008 through –00011."

Weight, add the following: "18.8 pounds per 1,000 feet for –00008 and –00010.
20.5 pounds per 1,000 feet for –00009 and –00011.
35.1 pounds per 1,000 feet for –00012, –00013, -00014 and –00015."



Attenuation		Power
MHz	dB	Watts At 1.5 SWR
500	8.3	600
1000	12.1	450
3000	22.5	250
5000	30.1	180
10000	45.5	120
20000	70.0	70

Attenuation and power ratings apply to M17/130-00008 and –00009.

Maximum attenuation ————————
Maximum power - - - - - - - - - - - - - - -

FIGURE 2A. Power rating and attenuation for aluminum outer conductor cables.

CONCLUDING MATERIAL

Custodians:
Army – CR
Navy – EC
Air Force – 11
DLA – CC

Review activities:
Army – AR, AT, CR4, MI
Navy – AS, MC, OS, SH
Air Force – 19, 99

Preparing activity:
DLA – CC

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